



2-92

Zero Beat

February 1992

Hampden County Radio Association, Inc

Springfield, Mass

Our 45th ARRL Affiliated Year

Next Meeting:

Friday February 7, 1992

Art Zavarella, W1KK

hosting past club officer's in conjunction
with the HCRA's 45th anniversary.

**Humor and history along with
what makes a radio club survive!**

Doors open at 7:30 pm, meeting starts at 8.

All are welcome.

Handicapable access!

All licensed amateur radio operators and would-be hams are invited.

KC1ZJ'S TECHNICAL CORER:

Frank Potts, NC1I will explain hardline and hardline
connectors before and after the regular meeting.

Board of Director's meeting Thursday February 13 at Greg Stoddard's, N1AEH.

Radio Classes

The Hampden County Radio Association will be sponsoring amateur radio classes for the novice and technician class license starting 7 pm Thursday February 6th at Beulah Baptist Church, lower level, 755 prospect Street, Chicopee, MA. This is just off route 33, Memorial Drive near the South Hadley entrance to Westover. Instructors are Ken NO1M, and Steve, N1SR. Contact them at 593-6554 and 593-9891 for registration and more information.

HCRA FLEA MARKET

Sunday April 26

9 am to 2 pm

Southwick Rec Center

Powder Mill Rd

Southwick, MA

Volunteer Exam Session available

Bring a Friend!

In This issue:

VHF Contest First Reports

Ham Visits Headhunters

Russian Radio Newsletter Excerpts

And More.....

Upcoming Issues:

W1KK Antenna Article

VHF Contest Score Listing

Product Reviews

Out of Band Signal Protection

VHF Contest Preliminary Report

By

Jeffrey J. Duquette K1BE

The bands were dead, but boy, were the locals alive!!! Pileups on 446.000! Chaos and courtesy on the FM two meter direct frequencies. More callsigns on 222 Mhz than I've ever heard before. What a fun contest this was.

The new hams were out in force, timid and shy and first. As the contest bug bit, and bit hard, they were impossible to tell apart from the old hands. Rovers zipped and zinged from grid square to grid square, some risking life and limb atop Mt. Greylock.

Many members seemed to have qualified for the new club awards on this first contest in 1992. A new club high score may have been set of 700,000 points plus. The next issue of Zero Beat will print a list of scores that have been reported. W1NY set a new high score of 238,000, and may take the top spot nationwide.

Congratulations to big guns and small who made this such a super contest. Make sure you send in your logs to the ARRL. See you on the air in the June VHF contest.

Wind 'Em Up Keep 'Em Going

By

Charlie Dunlop K1II

We know what bands, power, station equipment, antennas, and locations members operated during the VHF contest. Well... curiosity got the best of me and I decided to survey the members with intimate questions of "What will you consume during the contest?" I withheld the results so as not to divulge secret weapons that may provide super-stamina on this endurance weekend.

One member, (name withheld) said that of prime importance was to perform all husbandry duties prior to contest time! (Must be a cattle rancher...editor)

NQ1C, Bob said, "Don't waste time trying to eat and operate radios. Keep water at the operating desk plus regular meals. I haven't mastered being able to chew and send Morse simultaneously!"

Al Carpin, NA1W: "Eat a good meal before so as to be fully charged. I break for regular meals; fruit juice, soda, occasional coffee. My secret this year was teaching the dog how to cook."

Larry, N1EPE: Pancakes, juice, lots o' coffee. Chocolate oatmeal cookies is my secret energy food. My excuse to eat a lot of them 'cause they're good for you". (Bring some samples to Friday's meeting...editor)

Paul K1GX: Plans to nibble on chips all night. "Eat high energy trail-mix dried fruit. I take no time out for regular meals; two days of snacking, soda and no beer. Gotta have coffee in the morning, granola bars."

W1KK, Art: "Whatever I can get my hands on! Potato chips, even McPizza!! I take ample things to eat."

KA1TBS, Fred: "Don't eat much. Indulge in coffee, not much junk food. Nuked food, (on Mt. Greylock???) soup, quick vittles, spaghetti. Eat when bands are dying, no food or drink when bands are open."

NC1B, Sean: "Potato chips, donuts, pizza, soda, no regular meals. (Sounds like a party, be right over)

K1JAO, Leo: "Lunch before contest. Chicken lettuce, cucumber sandwich, with soup du jour, and apple and a banana. Then I tough it out with pieces of fruit, no liquids, no regular meals."

N1SR, Steve: "No special preparations, coke and coffee.. Hit and run tactics for food. I primarily have natural fruit juices and non-messy snacks. Left handed food like trail mix, dried fruit, no sugar residue. I take a break every 12 hours, eat Chinese food, precut for fork to mouth trip. Eat'N'Operate at the same time."

K1WVX, Paul: I do not do anything different from any other day, take a break for an ordinary meal. Always have a glass of water at the operating position. Occasional fruit juices for throat refresher."

K1BE, Jeff: "Twinkies and coffee, food of the Gods"

N1DPM, Fred: "I eat normal meals; eat regularly, keep drinking. Coffee when tired to get going, fruit juice, milk. I stay away from alcoholic drinks, they displace water. I take breaks and stay away from soda. My eating schedule is shifted away from activity hours."

KA1ZE, Stan: " I'm a different tester than most. full-time, no time off for eating. Eat very little, crackers, apple, banana, whatever is hanging around. Sunday morning will have water, juice, no coffee. Food is of no importance. Concentration on operating. The mind tunes out the body's need for food, even after the contest, still not hungry" (ZEN and the art of contesting!...editor)

KA1WER, Paul: " Chicken soup, plenty of life savers, dried food."

AC1T, John: I operate at W1NY and safari home to raid the refrigerator. No McDonalds! Eat traditional Italian pasta for

carbohydrates, soup, plenty of roughage to keep system moving."

K6JZJ, Jim: "Liquid soup, trail mix, lots of coffee. (Do they make a solid soup?...editor)

W1ZGP, Bob: "Only two things to leave operating desk for: catch a couple of hours of sleep, and to visit the sacred white insulator. Break for coffee and medication. Lunch is normal, soda sandwich, pickles. All meals served by smiling hostess carrying a tray. Beverages are diet soda, half dozen cough drops within reach. I'm parked in a chair like a rock with an open window for rejuvenation!"

K1II, Charlie: "Regular meals, lots of them! Hot pot of decaf tea. Black coffee morning and night. I sneak open my sardines and crackers; the smell keeps me awake! Can't be without crunchy peanut butter sandwich which means I must operate cw while eating it!"

NC1I, Frank: Operators at W1NY are planning to have coffee, donuts, and pizza." Word has it that Mrs. Potts' soup is pretty good.

Ok, now the secrets are out, we'll see the results in June QST!

Heard by K1II During the Contest

"Wait a minute until I turn around the antenna!... N1FFFZFN42...You have too many letters in your call!...I think there's another radio on in the room, I can't hear!.....FN 42???... Are you sure? I never heard of a 4. Really, four? Not 3?????" The Junior op at K1BE

My Contesting Station

By

Al Carpin NA1W

Let me say I'm writing this at the prodding of Fred Stefanik, N1DPM. The January contest is now history, to the relief of our rover members. The idea of this article is to tell you that you do not need a super station to do well on the upper bands.

The station here at NA1W consists of mostly transverters. On 2 meters I use a Microwave Modules 25 watt box, with a GasFET front end, driving a TE Systems 170 watt solid state brick. The antenna is a Cushcraft 3219 at 35 feet. On 432 I use a MWM xverter with 10 watts out, driving another TE systems 100 watt brick. The antennas are a pair of modified Cushcraft 424 boomers at 38 feet. This is driven by an old Yaesu FT901DM xcvr, but all the filters were removed and changed to the international radio 2.1 kc, 8 pole filters.

On 903 and 2304 I use Down East Microwaves no tune xvtrs. Power on 903 is 150 mw and on 2304 it is 10 mw. 1296 is an old micro mod black box producing 1.2 watts driving two amps for a power level of 35 watts. The driver on these bands is a Kenwood TR-751A attenuated to deliver the required 1 watt of drive.

Antenna on these bands are Down East Microwave loop yagis. 1296 consists of a pair of 45 element loopers, 903 is a single 33 element looper, and 2304 is a single 45 element looper. The tower is a Rohn 25, 30 feet high. All of my feedline is Belden 9913 (not recommended for use above 432), but cost enters the picture here. 9913 is 50 cents per foot, versus \$4.75 per foot for hardline, plus the cost of the connectors. Belden 9913 has a loss of 4.5 db per 100 feet. 1 7/8 hardline less than 1 db at 1000 Mhz.

How much power do I need to be competitive? On 903 with 150 mw (milliwatts!) I worked NR1E located on Cape Cod, and on 1296 with 100 mw, (My xvtr died dropping from 1.3 watts to 10 mw). On 2304 I worked W1RIL in Paxton, MA. and KH6CP/1 in Northwestern Connecticut. Normally on 1296 I will work VE3ASO in Montreal, when my power level is at 35 watts.

At the level my station is operating I can expect to work a 500 mile radius on 2 meters, about the same on 432 (with some propagation help). On 1296 at the 35 watt level, I have reached out to FN00 at 375 miles, and FN25 at about 225 miles. On 903 and 2304 running the milliwatt levels I expect a range of about 100 miles.

I have nothing exotic in the shack, in fact most of the stuff was bought in the past seven years. The fun of operating the upper portion of the spectrum is always trying to improve your station's capabilities. If this peaks your interest, talk to someone presently on the frequencies. It's a lot cheaper to learn from their mistakes!

If you do decide to make the plunge, put your money into antennas and feedline. No matter how good your equipment and techniques, if you can't hear them, you can't work them.

This article is dedicated to the Grid Rockets" that roamed the hills of New England handing out contacts and enduring below freezing temperatures and high winds, not to mention driving back from Vermont in second gear, to help their friends in the club. We owe them a round of applause. 73 and see you on the upper bands!

Send Your VHF Contest
Logs Into the ARRL!

VHF SS Report Form

By

Robert McCormick WF1R

Now that the January VHF Sweepstakes are over, you can sit back and relax - almost! If you have not completed your VHF Sweepstakes summary form, do so now, and send it into the ARRL. The following steps will walk you through the process of filling out this form. It may look complicated, but is really quite simple.

1. Fill in the boxes at the top of the form. Indicate the callsign you used during the contest; the grid square you gave out, and the ARRL section you operated from. Most will use FN32 and WMA if you operated from Western Mass, while some will use FN31 and CT if you were south of the border.

2. Check one box under station categories. If you were a single operator station, and worked only one band, check the first box. Don't forget to indicate which band you operated! If you were a single operator station, and worked more than one band, check the second box. Finally, if you were fortunate enough to have additional help, check the multioperator station box, and list the calls of the operators to the right.

3. Go through your logs, making sure you have no duplicates. If you worked more than 200 people on a band you must submit a dupe sheet (list of calls worked), with your entry.

4. Count the number of contacts for each band, and write the count in the box in the QSO's column.

5. Count the number of grid squares you worked on each band. You may find it helpful to use the grid square map to do this.

6. For each band you worked, write the count of different grid squares in the Grid2 column.

7. Get your calculator.

8. Each QSO is worth a certain number of points, the higher the frequency, the more points you get. i.e. 2 meter QSO's are worth 1 point, while 70cm QSO's are worth two points each. For each band you worked, multiply the number of QSO's by the amount indicated on the right, and enter the result in the QSO (points) box.

9. Now for each band, multiply QSO points value (just computed) by the number of grid squares, and enter the result in the Score box.

10. Total the left hand three columns: QSO's, QSO points, and Grid2. DO NOT total the score column; it is computed in the next step!

11. Compute your total score. Multiply the total QSO points by the total Grid2, and write the result in the SCORE box. Remember, your total score is NOT the total of all the individual band scores, but the total number of QSO points multiplied by the total number of grid squares.

12. You're almost done. Date the form, sign it, and indicate your call.

13. Make sure your address is legible, the League uses that to send you an award. (possibly!)

14. If possible, make copies of your logs, summary sheet, and dupe sheets.

15. Mail all to ARRL, 225 Main St, Newington, CT 06111

16. Sit back, relax, and start thinking about next year's contest!

MICROWAVE TRANSVERTERS

SHF SYSTEMS No tune linear transverters and transverter kits for 902, 1269, 1296, 2304, 2400, 3456 MHz. All use 2m i.f. 13.8V. Kits include mixer and L.O. P.C. boards, xtal and all components. Built units include I.F./D.C. switchboard, connectors and compact low profile housing. Other frequency options in amateur band available.

SHF 900K	902-906 MHz	50mW	Kit \$139	Built \$265
SHF 1240K	1296-1300 MHz	10mW	Kit \$149	Built \$265
SHF 1269K	1269-1272 Oscar Mode L	10mW	Kit \$140	Built \$255
SHF 2304K	2304-2308 MHz	10mW	Kit \$205	Built \$325
SHF 2401K	2400 MHz Mode S rev Corv		Kit \$155	Built \$255
SHF 3456K	3456-3460 MHz	10mW	Kit \$205	Built \$325
SHF LOK	540-580 MHz L.O.	50mW	Kit \$ 66	

MICROWAVE AMPLIFIERS from

DOWN EAST MICROWAVE

Linear Power Amps
for SSB, ATV, FM, 902—1296—2304—3456MHz

2304 PA	10mW in 5W out	1240-1300 MHz	\$140
2318 PAM	0.5W in 18W out	1240-1300 MHz	\$215
2335 PA	10W in 35W out	1240-1300 MHz	\$325
2340 PA	1W in 35W out	1240-1300 MHz	\$355
2370 PA	5W in 70W out	1240-1300 MHz	\$695
3318 PA	1W in 20W out	902-928 MHz	\$275
3335 PA	14W in 40W out	902-928 MHz	\$335
1302 PA	10mW in 3.0W out	2304 MHz	\$400
901 IPA	10mW in 1W out	3456 MHz	Write or Call

T/R Switching available, all 13.8 VDC

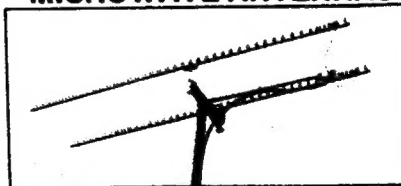
Low Noise Preamps & preamp kits—432, 902, 1296, 1691, 2304, 2401, 3456 MHz, 5.7 and 10 GHz.

33LNA	preamp 6 dB NF 902 MHz	13.8V	\$ 95
23LNA	preamp 6 dB NF 1296 MHz	13.8V	\$ 95
13LNA	preamp 7 dB NF 2300-2400 MHz	13.8V	\$130
1691LNAWP	preamp 1 dB NF 1691 MHz mast mounted	13.8V	\$140
4017LNAK	preamp kit 400-1700 MHz	6 dB	\$ 40

Preamp kits for 2304-10 GHz

Write or Call

MICROWAVE ANTENNAS



Loop Yagis, Power Dividers, Stacking Frames, Complete Array of 902, 910, 1269, 1296, 1691, 2304, 2401, 3456 MHz. For Tropo, EME, Weak Signal, OSCAR, ATV, Repeaters, WEFAK, Commercial point to point. Available in kit form or assembled and tested.

3333LYK	33el loop Yagi Kit	902 MHz	18.5 dBi	\$ 95.00
2345LYK	45el loop Yagi Kit	1296 MHz	21 dBi	\$ 95.00
2445LYK	45el loop Yagi Kit	1269 MHz	21 dBi	\$ 95.00
1844LY	44el loop Yagi (assem.)	1691 MHz	21 dBi	\$105.00
2355LYK	55el Superlooper Kit	1296 MHz	22 dBi	\$108.00
1345 LYK	45el loop Yagi Kit	2304 MHz	21 dBi	\$ 79.00
945LYK	45el loop Yagi Kit	3456 MHz	21 dBi	\$ 79.00

Other models available. Call or write for catalog.

DOWN EAST MICROWAVE

Bill Olson, W3HQT

Box 2310, RR1 Troy, ME 04987

(207) 948-3741

FAX: (207) 948-5157

VE1VAS: Marconi Memorial Station

By

Art Zavarella W1KK

In reference to the last month's Zero Beat article on my family vacation trip through the Canadian Maritime Provinces and our stop at the visitor center at Glace Bay, this gave us an excellent tour of the amateur commemorative station there, VE1VAS, (Voice of the Atlantic Seaboard. All state of the art Kenwood equipment, including the KW amplifier. The fifty foot Rohn tower with a very rugged triband was beautiful.

Maureen, the operator on duty, told us that the operation was entrusted to the local radio club in Sydney, N.S. She gave me the name of the chief operator, Wm. Harcourt Appleton, VE1DM. I have written to him inquiring as to date, time, frequencies, etc. of their annual Marconi on-the-air celebration. So far, no response. I will follow up soon on HCRA stationery as the trustee of W1NY, and enclose a copy of the recent super Marconi special issue of Zero Beat, of which we can be so proud! I'll pass along any schedules I receive to this newsletter, so that other members can get the QSL card.

Excerpts from A Letter

Written By

Scott Darsney WB1CAC

Hi everyone and happy holidays! This is my fourth Christmas in Dutch Harbor, Unalaska, Alaska. I spent three months in '91 in Asia in Nepal, Himalaya and Mt. Everest. Had a blast in Katmandu, (We were sitting in the bar when a nearby auto shop blew up!), and we attempted two peaks while we were there, Imje Tse and Loboje. I stayed an extra month for the New England Everest Expedition. The team put four on the summit on 5-15-91!

Nepal is one of the most mystical countries I've ever been to. The Sherpas I met will have a lasting effect on my life.

From there I went to Bangkok and then Singapore. The seven weeks in Indonesia, then to Batam off the coast of Sumatra. Went to Bali, where I got to laze around on the beach with the Aussie surfing crowd. The culture and lifestyle of the Balinese is incredibly unspoiled. The island has incredible beaches, temples, and volcanic mountaintops. Bali is comprised of over 3.5 million people who have a modified Hindu religion. Only four given names are used in their culture, which makes it easy to remember, but can be confusing. The people believe the ocean is full of demons and live far inland.

My next stop was Java, which is a very large Muslim country, comprising over 130 million. Traveling through Jakarta and Yogyakarta reminded me of "The Year of Living Dangerously". I climbed and explored many of the ancient volcanoes. I photograph everything and sell the pictures.

Next went to the city of Balikpapan in the East Kalimantan province on the island of Borneo. Hooked up with a river guide named Julani and traveled upriver to see the Dyak people who used to hunt heads up until only 30 years ago. The people have long stretched earlobes and proudly showed me their traditional instruments and headhunting knives!

Returned to Alaska and spent four days looking for a lost hiker. If you ever get the chance stop up and see me, I'll be here January through July and November to December. Christmas day went to Mt. Ballyhoo with my skis. Stepped out into the windy cold, with the sun boldly poking out its sunshine through the swirling spindrift as I climbed to the cornice ridge of Ballyhoo. As I defogged my glasses and stood on the icy, windpacked summit, I just hung out for a while, gazing at the Bering Sea, the North Pacific, and a few distant Fuji-like mountains in the far distance. All was silence except for intermittent gusts of wind and spindrift, and two young bald eagles soaring gracefully over my head. All was white and blue as I clamped on my skis. I jumped off the cornice and went down a magic untracked 3000 foot run of snow and hardpack. Not a bad way to spend Christmas Day!

Namasle,

Scott

Editor's Note: Scott was one of the original Agawam Civil Defense Radio boys like K111, AC1T, N1DPM and many others. A club member for many years, I hope we can have him as a guest speaker if he ever journeys back to Western Mass. The letter is longer than what is typed here.

Miscellaneous Information

Membership dues are \$10.00 per season and can be sent to the club address:

Hampden County Radio Association

P.O. Box 482,

West Springfield, MA 01090-0482

Zero Beat Articles can be sent to the editor's QTH:

Jeffrey J. Duquette, K1BE

18 Anvil Street

Feeding Hills, MA 01030-1530

Telephone 413-789-1081

No calls after 9 pm!



Soviet Ham Press Digest

Box 195, Donetsk, 340000 USSR

EDITORIAL

Dear Subscribers,

The Soviet Ham Press Digest received many letters from the readers where they ask to publish the information on

Chart 1: HF Allocations

Class of license	Power, W	Segment, kHz	Modulation
4	5	1830-1930	CW
		1860-1930	SSB
		1900-1930	AM
3	5	1830-1930	CW
		1860-1930	SSB
		1900-1930	AM
	10	3500-3600	CW
		21000-21150	CW
		28000-29700	CW
		28200-29700	SSB
		28800-29200	AM
		VHF privileges (see Chart 2)	
2	5	1830-1930	CW
		1860-1930	SSB
		1900-1930	AM
	50	3500-3650	CW
		3600-3650	SSB
		7000-7100	CW
		7040-7100	SSB
		14000-14350	CW
		21000-21450	CW
		21150-21450	SSB
		28000-29700	CW
		28200-29700	SSB
		28800-29200	AM
		VHF privileges (see Chart 2)	
1	10	1830-1930	CW
		1860-1930	SSB
		1900-1930	AM
	200	3500-3650	CW
		3600-3650	SSB
		7000-7100	CW
		7040-7100	SSB
		10100-10150	CW
		14000-14350	CW
		14100-14350	SSB
		21000-21450	CW
		21150-21450	SSB
		28000-29700	CW
		28200-29700	SSB
		28800-29200	AM
		VHF privileges (see Chart 2)	

what operating privileges are existent in this country. In order to help throw light on the subject, the following short article and charts have been compiled - Editor, Alex Ulyanich RB5IJ.

To become a ham in the USSR one needs to pass an amateur exam. And to pass an amateur exam one comes to the nearest local or regional radioclub, where qualification commissions reside. Each such commission consists of a number of most experienced local hams selected and adopted by the local radio sports federation. The exam for every class of amateur license is conducted according to the programs worked out by the Radio Sports Federation (RSF) of the USSR (usually they require knowledge of code and theory).

Soviet citizens may apply for several classes of licenses. The newcomer to our hobby may get the so-called "novice" ticket (4th class license). One can get such a license at the age of 14. No code knowing is necessary, and parents' permission is a must in this case!

Those who know the code may apply for a shortwave license (this class of license is issued to persons who have reached 16 years as well as to club stations). There are now three different subclasses within this class of license each involving different limitations imposed on bands and modes (see Chart 1 and Chart 2).

Chart 2: VHF Allocations (Only 3rd, 2nd and 1st class licenses; power not to exceed 5 W)

Segment, kHz	Modulation
144000-144150	CW
144150-144500	CW, SSB
144500-145800	CW, SSB, AM, FM
145800-146000	CW, SSB (satellite QSOs)
430000-432000	CW, SSB, AM, FM
432000-432150	CW
432150-432500	CW, SSB
432500-435000	CW, SSB, AM, FM
435000-438000	CW, SSB (satellite QSOs)
438000-440000	CW, SSB, AM, FM
1260000-1296000	CW, SSB, AM, FM
1296000-1296150	CW
1296150-1296500	CW, SSB
1296500-1300000	CW, SSB, AM, FM

Give it up for Lost

by D. Kundel

In recent years the democratic changes in our society have caused a sharp increase in the international mail exchange. Letters of hams constitute a significant part of this mail. We send QSLs in these letters to confirm radio contacts. A lot of letters, however, from abroad do not reach us. Taking into account that the number of hams is about 20,000 only in the Ukraine and the mail exchange is some hundreds letters per ham, one can easily see that the number of letters that disappear every month is 10,000 at least. There's no doubt that our letters are lost nowhere else but here, in the Ukraine. We contact hams of many countries in the world and know that such things are unprecedented there. We should add here that we, hams, have a unique possibility to get on the air a confirmation of our contacts about their sending us the letters.

We believe that our letters become prey to dishonorable postal employees whose number is steadily growing. One cannot keep thinking that there is an organized crime skilfully guided by someone. Perhaps these people are attracted by foreign stamps, IRCs, eye-catching cards and other enclosures.

Pilfering of this kind is possible due to the irresponsibility and full absence of control exhibited throughout the entire journey of the mail in this country. Quite evident that the introduction of the postmarking with the indication of the date and personal identification number of the sorting personnel will stop even the possibility of pilferage. Sample check-ups of the mail after the sorting process will give us even better results...

We are of the opinion that postal regulations approved by the USSR Ministry of Communications as of March 13, 1984 have become obsolete, and they cannot guarantee the observance of our constitutional rights as to the secrecy of mail, for the equipment for spying and inspection of letters is still preserved and in good form, and we think it works to the full extent.

Earlier we have applied on this matter to the Kiev head post-office, to the center of mail conveyance, to the deputy minister of the Ukrainian Ministry of Communications V. Boyarchuk. Alas, all their answers were mere references to the acting mail regulations. Especially bitter grudges we bear against the Kiev Dispatcher Post Office No. 12 which is headed by V. Malko. We hold many grudges against the Odessa international head post office.

According to hams of Russia, Belorussia and other union republics they do not suffer from such disgraceful practices.

Editorial note

The letter we publish here is one of many readers' complaints related to countless "surprises" which the mail service has for its clients and gives them without stint. The international items of mail being opened, letters that cover a four-day route in a month, parcels filled with junk - this is a very brief list of our nuisances.

So we think that our desire to obtain an explanation from the Ukrainian Ministry of Communications is well grounded.

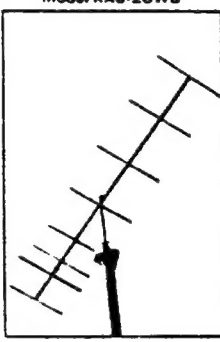
By the way, the Ukrainian Customs Section reports that from April 1991 the whole process of receiving, customs inspection and delivery of parcels is carried out exclusively by the Communications Committee. For this purpose a special international department attached to the Head Post Office of the Ukraine is created where all items of mail are customs inspected. In order to compensate for missing items and lost parcels the Head Post Office is given special funds. Thus from now on everybody will be robbed exclusively by the post service, it possesses a monopoly of this.

"KoZa", July 1991

**PRESENTING THE
RAS-2UWB**

EIGHT ELEMENTS. TWO METERS. ULTRA WIDE BANDWIDTH
THE PERFECT MATE FOR YOUR ALL MODE TRANSCEIVER

Model RAS-2UWB



\$84.95

ELECTRICAL SPECIFICATIONS:

Gain 13.3 dBi +/- 25

E-Plane beamwidth 40 deg

H-Plane beamwidth 45 deg

Bandwidth 4 MHz

Sidelobe attenuation

1st E-Plane -20 dB

1st H-Plane -14.5 dB

SWR (1.5:1) 144 to 148 MHz

F/B ratio 22 dB

MECHANICAL SPECIFICATIONS:

Length 11 ft. 9 in.

Stainless Steel hardware except U-Bolt

Mast up to 1 1/2" diameter

Wind survival 90+ MPH

Aluminum: 6061 T-6

Element insulators: Black Delrin

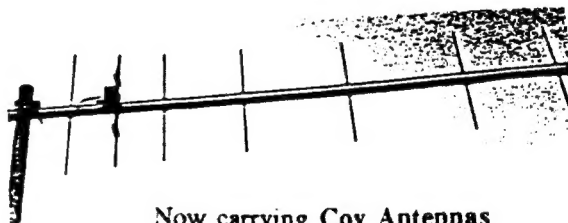
Coax connector: N-type

Weight: 3.5 lb.

ALSO AVAILABLE

FO12-144	FO15-144	FO22-432	FO25-432	FO33-432	FO16-220	FO11-440
POWER DIVIDERS			FO22-432 ATV		STACKING FRAMES	

We supply those hard to find parts for the home builder
1/4" Delrin insulators \$9.50/50 1/4" Stainless keepers \$8.75/50



Now carrying Coy Antennas
for 144, 222, & 440!
Four foot boom with rear mount,
perfect for apartment dwellers, rovers.

We carry Belden cable, Amphenol connectors!
Visa, Mastercard, or cash.

Communications Accessories
Fred Gore KA1TBS
40 Birchwood Road
Southwick, MA 01077
413-569-3579

1991 CLUB OFFICERS 1992

President:	NQ1C	Bob Lafleur
Vice-president:	N1EPE	Larry Lemoine
Treasurer:	N1AEH	Greg Stoddard
Secretary:	N1DUY	Jim Sebolt

Directors:

K1CPJ
KA1QAS
K1II
NC1I

Bob Cohen
Scott Cohen
Charlie Dunlap
Frank Potts

WA1YCA	Tryon Cote
WA1PLS	Ed Goldberg
KA1TBS	Fred Gore
N1DPM	Fred Stefanik

HCRA UPCOMING EVENTS

Feb. 6 Radio Classes Begin
Feb. 7 Club Meeting
Feb. 13 B/D Meeting

Mar. 6 Club Meeting - W1ALL and MARS
Mar 12 B/D Meeting

Apr. 3 Club Meeting
Apr. 9 B/D Meeting
Apr. 26 Club Flea Market

May 1 Club Meeting
May 7 B/D Meeting

June 5 Annual Meeting and Awards Banquet
June VHF Contest
June FIELD DAY!

Next Meeting

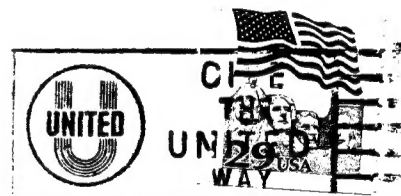
Friday February 7, 1992

Feeding Hills Congregational Church

Art Zavarella, W1KK

hosting past club officer's in conjunction
with the HCRA's 45th anniversary.

Hampden County Radio Association, Inc.
P O Box 482
West Springfield MA 01090-0482



Forwarding & Address
Correction Requested

First Class

AC1T E V C A 14 I 10/92

[REDACTED]